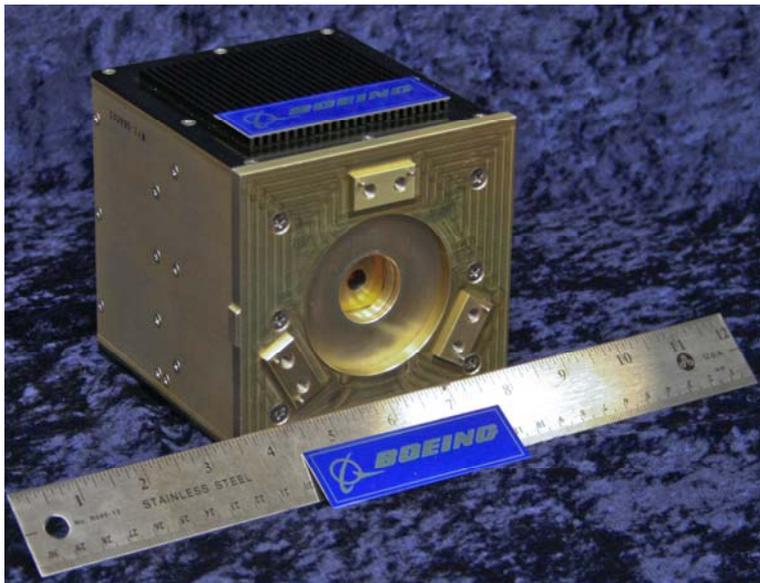
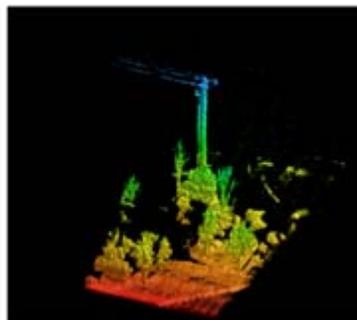
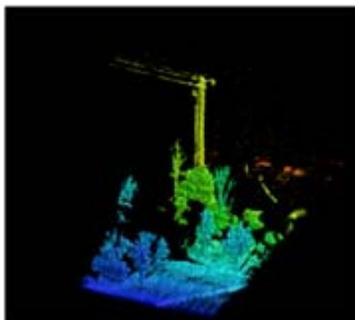
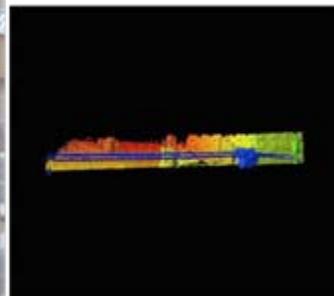
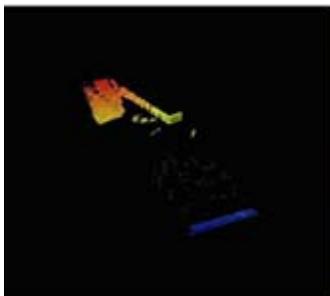


## Single Photon 3D LADAR Camera

A compact, self contained photon counting LADAR receiver for 3D imaging



- Single Photon Sensitivity
- Geiger-Mode Operation
- 1.0 – 1.6 micron Wavelength Operation
- Long Range Operation
- Camera Link
- Low Power Operation
- Image Acquisition Software
- Suitable for Airborne Applications

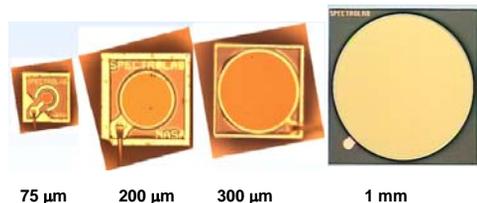


# Spectrolab

## Sensor Products

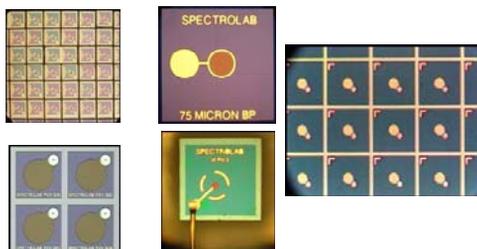
www.spectrolab.com

### Front-Illuminated APD Dies

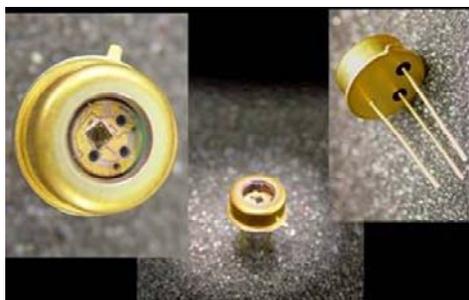


75 μm    200 μm    300 μm    1 mm

### InGaAs PIN Dies



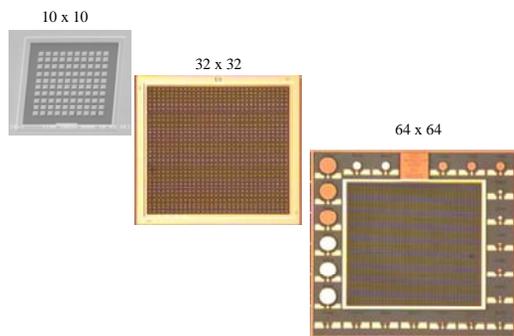
### First Large-area (1mm) InGaAs APD



### InGaAs PIN Packaged Dies

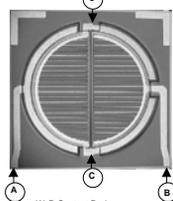


### APD Array Evolution



### 2V Laser Power Converter

2V Power-by-Fiber converter micrograph



- 1W Fiber Illumination @ 800-840nm
- Optical density equivalent to 700X AMO sun concentration
- Monolithic integration of two single junction GaAs elements
- 45% conversion efficiency achieved despite high optical obscuration and losses (up to 20%)

Laser Power Converter

